

FCC 47 CFR PART 15 SUBPART B TEST REPORT

for

10.1" Panel PC

MODEL: W10IA3S-PMA1; W10XXXX-XXXXXX
(X=A~Z, a~z, 0~9, Blank or Slash)

Test Report Number:
90521001-D

Issued for

Winmate Communication INC.

9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.

Issued By:

Compliance Certification Services Inc.

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Revision History

Rev.		Issue Date		Revisions	Effect Page	Revised By
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1 TEST RESULT CERTIFICATION

Product:	10.1" Panel PC
Model:	W10IA3S-PMA1; W10XXXX-XXXXXX (X=A~Z, a~z, 0~9, Blank or Slash)
Brand:	Winmate
Applicant:	Winmate Communication INC. 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Manufacturer:	Winmate Communication INC. 9F, No. 111-6, Shing-De Rd., San-Chung City, Taipei 241, Taiwan, R.O.C.
Tested:	June 2, 2009
Test Voltage:	120VAC, 60Hz

EMISSION			
Standard	Item	Result	Remarks
FCC 47 CFR Part 15 Subpart B (July 10, 2008), ICES-003 Issue 4 ANSI C63.4-2003	Conducted (Main Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

- Note:
1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
 2. The information of measurement uncertainty is available upon the customer's request.

Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Ethan Huang
Section Manager

Reviewed by:

Julia Wei
Senior Specialist



2 EUT DESCRIPTION

Product	10.1" Panel PC		
Model	W10IA3S-PMA1; W10XXXX-XXXXXX (X=A~Z, a~z, 0~9, Blank or Slash)		
Brand Name	Winmate		
Applicant	Winmate Communication INC.		
Serial Number	90521001		
Received Date	May 21, 2009		
EUT Power Rating	12VDC, 5A		
CPU Manufacturer	Intel	Model	N270 1.6GHz (133MHz / FSB: 277MHz)
RAM Manufacturer	Transcend	Model	1GB (DDR2-667)
Main Board Manufacturer	Winmate	Model	IA30
HDD Manufacturer	Seagate	Model	ST920217A (20GB)
LCD Panel Manufacturer	AUO	Model	B101AW03-V0
LAN Manufacturer	On Board		

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH
1). Video Port (D-Sub)	1	1
2). PS/2 Keyboard / Mouse Port	1	1
3). USB Port	2	2
4). RS-232 Port	2	2
5). LAN Port	2	2

Note:

1. The means of "X" (X=A~Z, a~z, 0~9, Blank or Slash) on model number is just for marketing purpose only.
2. All the model numbers (list on this report) are identical just for marketing purpose only.
3. Client consigns only one model sample (Model number: W10IA3S-PMA1) to test. Therefore, testing Lab. just guarantees the units, which have been tested.

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

Pre-Test Mode
Mode 1: 1024 x 600, 60Hz Resolution
Mode 2: 800 x 600, 60Hz Resolution

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

Final Test Mode		
Emission	Conducted Emission	Mode 1
	Radiated Emission	Mode 1

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

1	Setup the EUT and simulators as shown on 4.2.
2	Turn on the power of all equipment.
3	The EMI (File name: Win RFI) test program was loaded from EUT and executed in "Windows XP "mode.
4	EUT will sends "H" pattern to EUT monitor, the monitor will show "H" pattern on the screen.
5	EUT sends "H" pattern to modem.
6	Repeat the above procedure (3) to (5).

Note: Test program is self-repeating throughout the test.



4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

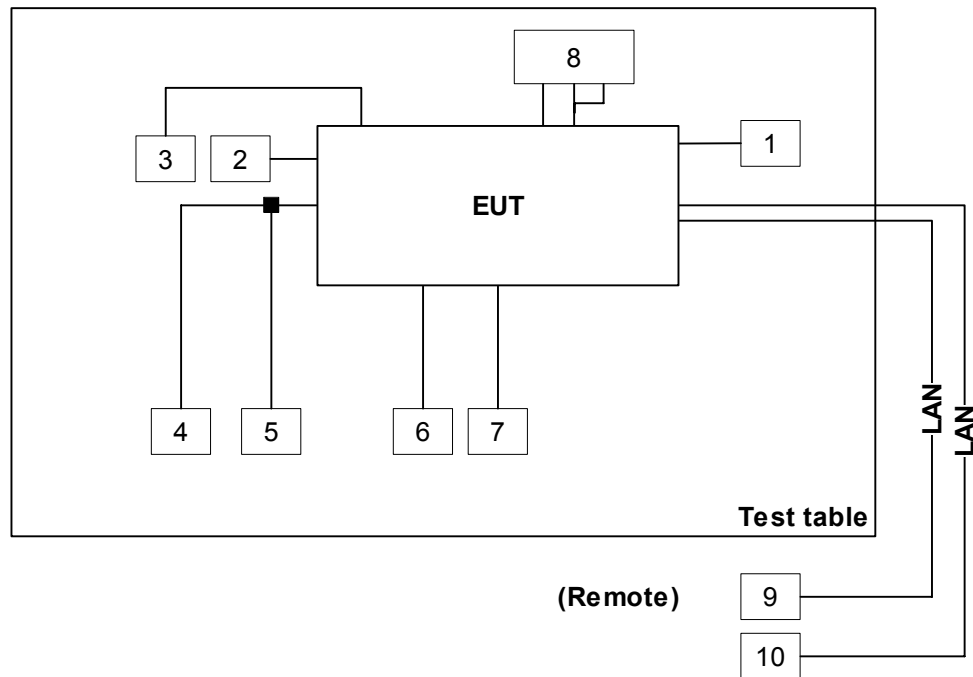
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Trade Name	Data Cable	Power Cord
1	Monitor	959NF	AQ19H2RT706134B	FCC DoC	SAMSUNG	DVI Cable: Shielded, 1.8m with two cores D-Sub Cable: Shielded, 1.8m with two cores Audio Cable: Unshielded, 1.8m	Unshielded, 1.8m
2	Modem	DM-1414	304012268	IFAXDM1414	ACEEX	Unshielded, 1.8m	Unshielded, 1.8m
3	Modem	DM-1414	304012269	IFAXDM1414	ACEEX	Unshielded, 1.8m	Unshielded, 1.8m
4	PS/2 Keyboard (One to two Adapter)	Y-SJ17	SYU13518342	FCC DoC	Logitech	Unshielded, 1.8m	N/A
5	PS/2 Mouse (One to two Adapter)	M-SBF69	HCA45009696	FCC DoC	Logitech	Unshielded, 1.8m	N/A
6	USB 2.0 External HDD	F12-UF	A0100214-43b0015	FCC DoC	TeraSys	Unshielded, 1.8m	N/A
7	USB 2.0 External HDD	F12-UF	A0100214-43b0015	FCC DoC	TeraSys	Unshielded, 1.8m	N/A
8	DC Power Supply	DC100-30D	888679	FCC DoC	ALLPOWER	Unshielded, 0.2m x 3	Unshielded, 1.8m
9	Notebook PC (Remote)	COMPAQ NC 4010	CNU441F8LV	FCC DoC	HP	LAN Cable: Unshielded 10m with a core	AC I/P: Unshielded 1.8m DC O/P: Unshielded 1.8m with a core
10	Notebook PC (Remote)	COMPAQ NC 4010	CNU5191L58	FCC DoC	HP	LAN Cable: Unshielded 10m with a core	AC I/P: Unshielded 1.8m DC O/P: Unshielded 1.8m with a core

Note: Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST

1. Monitor	2. Modem	3. Modem
4. PS/2 Keyboard	5. PS/2 Mouse	6. USB 2.0 External HDD
7. USB 2.0 External HDD	8. DC Power Supply	9. Notebook PC
10. Notebook PC	---	---





5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Germany	TUV Rheinland
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Radiated emissions	30~200MHz	±3.8856
	200~1000MHz	±3.8721

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Consistent with industry standard (e.g. CISPR 22: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be based on the results of the compliance measurement. Consequently the measured emissions being less than the maximum allowed emission result in this being a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is based on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission Room				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
N/A				

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.

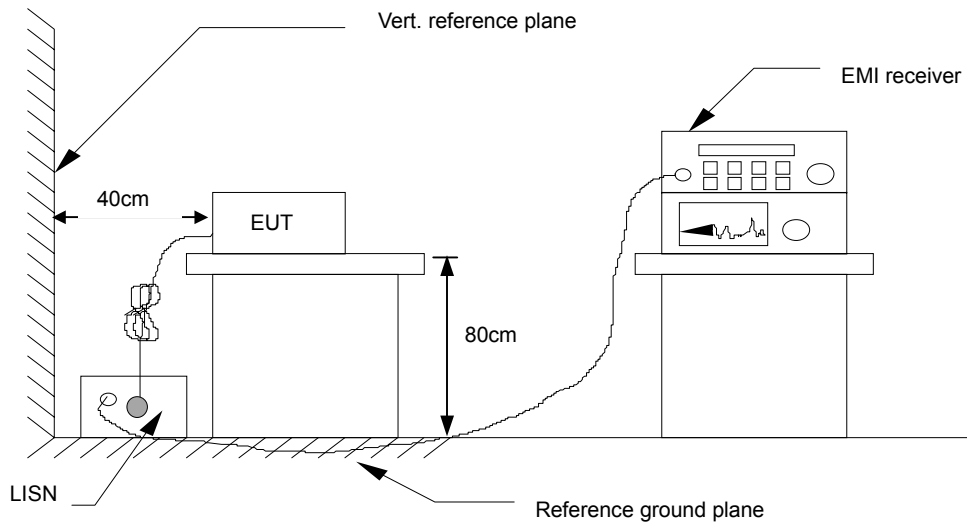
6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)**Procedure of Preliminary Test**

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE:

Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Corrections factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak. limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
x.xx	43.95	33.00	10.00	53.95	43.00	56.00	46.00	-2.05	-3.00	Pass

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
 Correction Factor (dB) = LISN Factor + Cable Loss
 Result (dBuV) = Raw reading converted to dBuV and CF added
 Limit (dBuV) = Limit stated in standard
 Margin (dB) = Result (dBuV) – Limit (dBuV)

6.6. TEST RESULTS

Not applicable, because the EUT is not connected to AC Main Source directly.



7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	dBuV/m (At 10m)	
	Class A	Class B
30 ~ 230	40	30
230 ~ 1000	47	37

Frequency (MHZ)	Class A (dBuV/m) (At 10m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 960	59.5	79.5	54	74

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

7.2. TEST INSTRUMENTS

Open Area Test Site # 1				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	ADVANTEST	R3261C	81720301	N.C.R
EMI Test Receiver	R&S	ESVS20	838804/004	03/11/2010
Pre-Amplifier	HP	8447D	2944A09173	04/14/2010
Bilog Antenna	TESEQ	CBL 6112D	23189	06/20/2009
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
RF Switch	Anritsu	MP59B	M54367	N.C.R
Site NSA	CCS	N/A	N/A	03/06/2010
Test S/W	LabVIEW 6.1 (CCS OATS EMI SW V2.7)			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



3 Meter Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilnet	E4407B	MY44212679	12/28/2009
Pre-Amplifier	HP	8449B	3008A00965	12/31/2009
Pre-Amplifier	MITEQ	AMF-6F-260400-40-8P	985646	05/24/2010
Horn Antenna	EMCO	3115	9602-4659	04/16/2010
Horn Antenna	EMCO	3116	00026370	10/15/2009
Site VSWR	SIDT EUROPE	9x6x6	N/A	02/27/2010
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Test S/W	CCS-3A1RE-Luchu			

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.

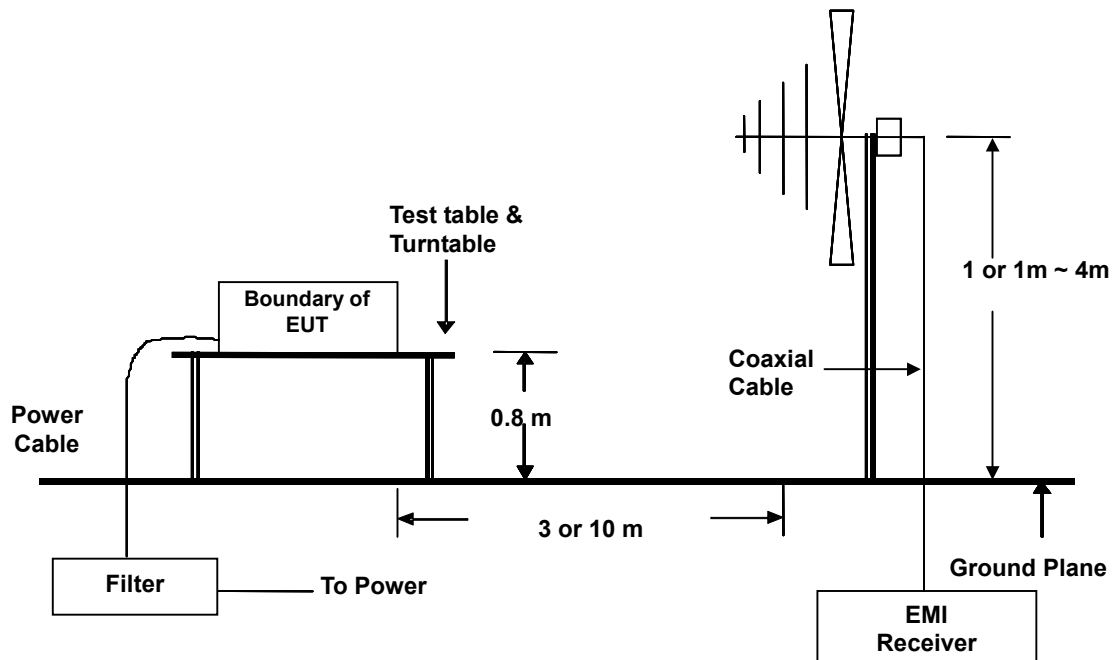
7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)**Procedure of Preliminary Test**

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. DATA SAMPLE:

Below 1GHz

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
xx.xx	16.49	9.86	26.35	30.00	-3.65	116.00	101.00	QP

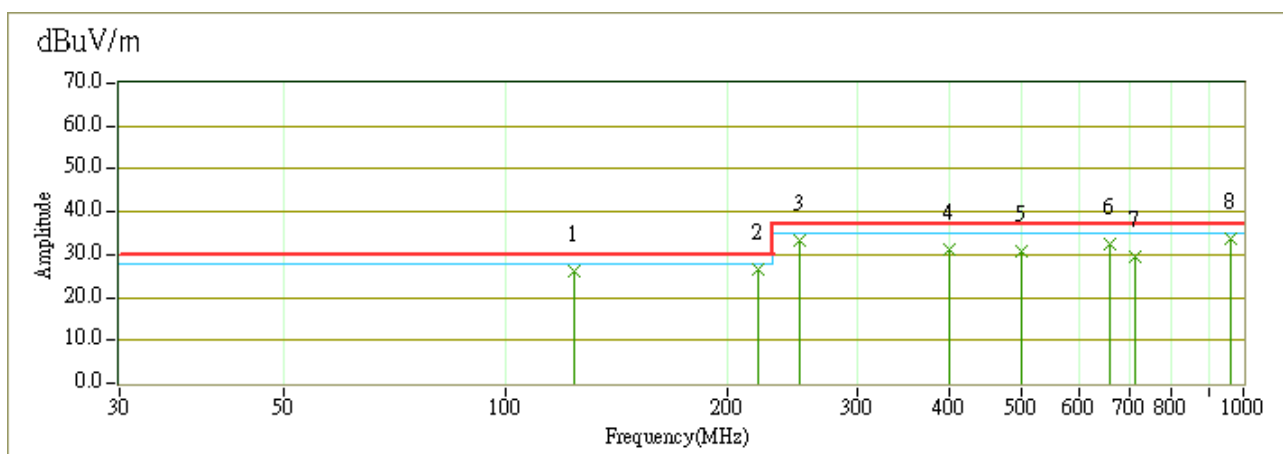
Above 1GHz

Frequency MHz	Corr. Factor (dB/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
xxxx.xxx	-4.35	49.81	58.74	45.46	54.39	54.00	74.00	-8.54	-19.61

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer / Receiver reading
 Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
 Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
 Q.P. = Quasi-Peak

7.6. TEST RESULTS

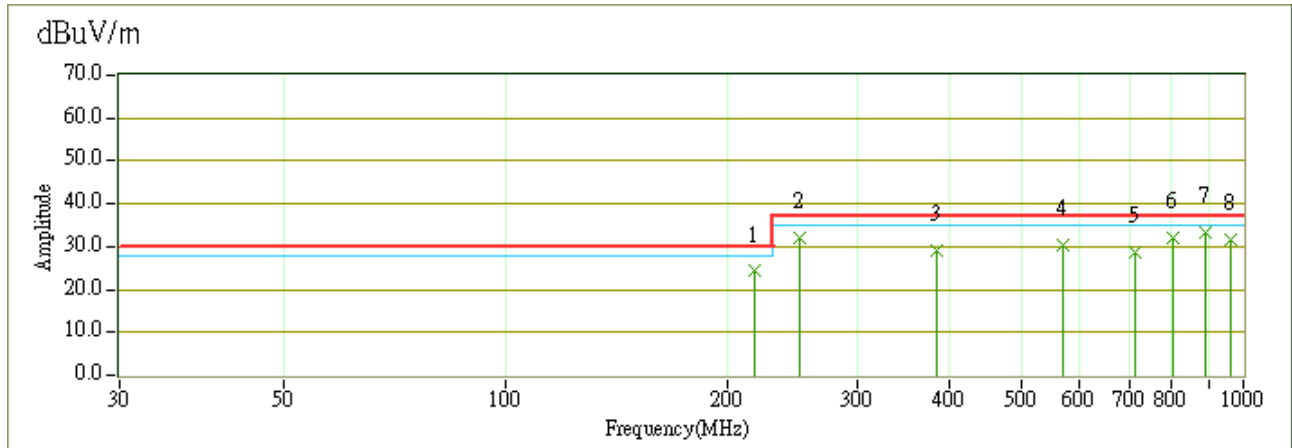
Model No.	W10IA3S-PMA1	Test Mode	Mode 1
Environmental Conditions	28°C, 52% RH	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Steve Cheng



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	123.75	46.61	-20.44	26.17	30.00	-3.83	216.20	100.10	QP
2	219.44	44.21	-17.66	26.55	30.00	-3.45	360.00	100.00	QP
3	250.01	49.87	-16.40	33.47	37.00	-3.53	0.00	100.00	QP
4	399.80	43.30	-12.20	31.10	37.00	-5.90	360.00	325.60	QP
5	500.03	40.71	-10.09	30.62	37.00	-6.38	33.20	283.70	QP
6	658.40	39.65	-7.08	32.57	37.00	-4.43	0.00	209.00	QP
7	713.15	36.04	-6.35	29.69	37.00	-7.31	327.30	172.40	QP
8	961.85	36.64	-2.90	33.74	37.00	-3.26	0.00	100.00	QP

REMARKS: The other emission levels were very low against the limit.

Model No.	W10IA3S-PMA1	Test Mode	Mode 1
Environmental Conditions	28°C, 52% RH	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Steve Cheng



No.	Frequency (MHz)	Reading (dBuV)	Correction Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	217.25	42.00	-17.75	24.26	30.00	-5.74	318.90	400.00	QP
2	250.00	48.30	-16.40	31.90	37.00	-5.10	0.00	400.00	QP
3	384.00	41.46	-12.56	28.91	37.00	-8.09	256.00	375.40	QP
4	570.75	38.68	-8.43	30.25	37.00	-6.75	264.70	230.50	QP
5	713.20	35.12	-6.35	28.77	37.00	-8.23	109.90	100.00	QP
6	801.55	36.99	-5.09	31.90	37.00	-5.10	109.90	100.00	QP
7	889.35	36.77	-3.41	33.36	37.00	-3.64	359.90	100.00	QP
8	961.88	34.36	-2.90	31.46	37.00	-5.54	0.00	100.00	QP

REMARKS: The other emission levels were very low against the limit.



Model No.	W10IA3S-PMA1	Test Mode	Mode 1
Environmental Conditions	18°C, 60% RH	Test Frequency Range	1000MHz ~ 8000MHz
Antenna Pole	Vertical	Antenna Distance	3m
Detector Function:	Peak/Average	Tested By	Tony Tsai

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
1065.000	-8.00	--	57.01	--	49.01	54.00	74.00	--	-24.99
1325.000	-6.41	--	58.05	--	51.64	54.00	74.00	--	-22.36
1440.000	-5.70	--	52.87	--	47.17	54.00	74.00	--	-26.83
1465.000	-5.55	--	56.60	--	51.05	54.00	74.00	--	-22.95
1785.000	-3.27	--	51.75	--	48.48	54.00	74.00	--	-25.52
1865.000	-2.69	--	54.21	--	51.52	54.00	74.00	--	-22.48

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



Model No.	W10IA3S-PMA1	Test Mode	Mode 1
Environmental Conditions	18°C, 60% RH	Test Frequency Range	1000MHz ~ 8000MHz
Antenna Pole	Horizontal	Antenna Distance	3m
Detector Function:	Peak/Average	Tested By	Tony Tsai

Frequency MHz	Corr. Factor (dBuV/m)	Reading		Result		Limit		Margin	
		Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dBuV/m)	Peak (dBuV/m)	Average (dB)	Peak (dB)
1030.000	-8.22	--	56.91	--	48.69	54.00	74.00	--	-25.31
1125.000	-7.63	--	54.01	--	46.38	54.00	74.00	--	-27.62
1440.000	-5.70	--	53.42	--	47.72	54.00	74.00	--	-26.28
1465.000	-5.55	--	54.91	--	49.36	54.00	74.00	--	-24.64
1490.000	-5.39	--	54.19	--	48.80	54.00	74.00	--	-25.20
1860.000	-2.72	--	54.51	--	51.79	54.00	74.00	--	-22.21

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION

RADIATED EMISSION TEST

